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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/762,388	03/19/2001	Andre Gilloire	1567P347	3986

7590 01/04/2005

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EXAMINER

NGO, CHUONG D

ART UNIT	PAPER NUMBER
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2124

DATE MAILED: 01/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/762,388

Applicant(s)

GILLOIRE ET AL.

Examiner

Chuong D Ngo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 August 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 and 10-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 and 10-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claim 15 stand objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claim in the alternative only. See MPEP § 608.01(n). Accordingly, the claim 15 is not been further treated on the merits.

2. Claims 1-8 and 10-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, line 3, it is unclear what it means by the recitation “a filter in a speech”. Further, the recitation “ $P(k)$ is a weighting window that is symmetrical on both sides of k_0 ”, lines 11-12 should be - - $P(k)$ is a weighting window that is symmetrical about $k = k_0$ - -. Claims 21 and 30 also have the same problems.

Claims 3-8, 10 and 11 are indefinite as including limitations that are inconsistent with those recited in claim 1. The recitation in claim 1 that “which filter has a frequency domain transfer function $Z(k)$ ”, lines 4-5, and “implementing convolution with a function U on the frequency domain transfer function $Z(k)$ where k lies in the range 0 to $N-1$ ”, lines 5-7, clearly limit the claimed invention to the process of figure 17 that directly performs the convolution on $Z(k)$ where k lies in the range 0 to $N-1$, and thus does not include an insertion of coefficients as recited in claims 3-8, 10, 11. Claim 31 also has the same problem.

As per claim 6, the phrase “the insertion ($M3$)”, line 3, lack a proper antecedent basis, and “ Z ”, lines 4, should be - - $Z(k)$ - -; claim 7, 11, 12 has the same problem.

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As per claim 7, the phrase “this filter (H)”, lines 4-5, lacks a proper antecedent basis.

As per claim 8, it is unclear what it means by the recitation “an input signal (X,S1)”, line 3.

As per claim 10, “(51)” should be deleted. Further, it is indefinite as to what “these two modules (M2,M3,M3’)”, line 10, are. The phrase “these two modules (M2,M3,M3’)” itself is indefinite and lacks a proper antecedent basis. In addition, the functional relationship between claim 1 and claim 11 is also unclear.

As per claim 11, the phrase “any of claims”, lines 1-2, should be - - any one of claims - -. Further, the phrase “an output vector (H’,S3)”, line 4, is indefinite. Further “the augmented vector Z”, line 4, and “the vector Z”, line 5, lack proper antecedent basis.

As per claim 13, it is unclear what it means by the recitation “the modulus of U is at its maximum”, line 3-4.

As per claim 21, it is unclear whether “the adaptive filter (460)”, line 6, is “an adaptive filter (470).

As per claim 24, “its” line 3, is indefinite as whether it refers to the reducer’s or the filter’s.

As per claim 28, “whereiin” should be - - wherein - -.

As per claim 31, “said frequency transform (X)”, lacks a proper antecedent basis. Further, it is unclear by the recitation, “possibly associated with receiving a frequency domain vector (H)”.

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

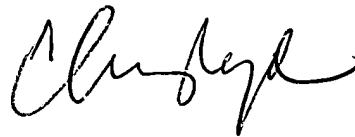
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Chuong D Ngo
Primary Examiner
Art Unit 2124

12/16/2004